

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit:

Unknown

GRIGORIY GRINBERG ET AL.

Examiner:

Unknown

Serial No.:

10/604,313

Filed:

July 10, 2003

For:

SPRAY-FORMED ARTICLES MADE OF PSEUDO-ALLOY

AND METHOD FOR MAKING THE SAME

Attorney Docket No.: FCHM 0133 PUS1 / 201-0423

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the references listed and identified on the attached Forms PTO/SB08A and PTO/SB08B are being submitted herewith for consideration by the Examiner.

While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the reference(s) are "material" as defined under 37 C.F.R. § 1.56(b).

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

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Michael S. Brodbine

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Name of Person Signing

A copy of each reference listed on the attached Forms PTO/SB08A and PTO/SB08B are included herewith. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

GRIGORIY GRINBERG ET AL.

Michael S. Brodbine

Reg. No. 38,392

Attorney for Applicant

Date: September 9, 2003

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Complete if Known Substitute for Form 1449A/PTO **Application Number** 10/604,313 INFORMATION DISCLOSURE Filing Date July 10, 2003 STATEMENT BY APPLICANT First Named Inventor Grigoriy Grinberg et al. Group Art Unit Unknown (use as many sheets as necessary) Unknown Examiner Name Sheet of Attorney Docket Number FCHM 0133 PUS1 / 201-0423

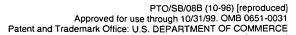
| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------|--|--|--|--|--|
| Examiner Initials | Cite No.1 | U.S. PATENT DOCUMENT Kind Code ² Number (<i>if known</i>) | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | 5,663,124 | | Rao | 09-02-1997 | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------|---|-----------|--|----------------|--|--|--|
| Examiner Initials | Cite No.1 | Foreign Patent Document Kind Code ⁵ Office ³ Number ⁴ (<i>if known</i>) | | | | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| | | GB | 1,083,003 | | Michael et al. | 09-13-1967 | | |
| | | WO | 98/37252 | | Lester | 08-27-1998 | | |
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¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.



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Complete if Known Substitute for Form 1449B/PTO Application Number 10/604,313 INFORMATION DISCLOSURE Filing Date July 10, 2003 STATEMENT BY APPLICANT **First Named Inventor** Grigoriy Grinberg et al. Group Art Unit Unknown (use as many sheets as necessary) Unknown **Examiner Name** οf Sheet 2 Attorney Docket Number FCHM 0133 PUS1 / 201-0423 OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Examiner item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), T 2 Initials Cite No.1 publisher, city and/or country where published. TAFA® (Thermal Spray Equipment and Supplies), Progress Report: SPRAYED METAL FACED PLASTIC TOOLING - @1988, Pages 1-16, File: 2.5.1, TAFA Incorporated, Concord, N.H., USA TAFA® (Thermal Spray Equipment and Supplies), Technical Data - ARC SPRAYED METAL MOLDS & TOOLING - @1987, File 2.5.2.1, Issue No. C10818, Pages 1-7 and Figures 1-5, Concord, N.H., USA. TAFA® (Thermal Spray Equipment and Supplies), Technical Data - TAFA TAFALOY® 204ME (EXPERIMENTAL) MOLD MAKING WIRE - @1992, File 1.9.1.2-204ME, Issue 011206, Pages 1-4, TAFA Incorporated, Concord, N.H., USA. IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY -``RSP TOOLING'' - (2 Pages), BP422KL-0399-1M-T.Sprayform Tools and Dies Limited (STD), Video Transcript, Rublication date at least as early as September 1, 2000. "RAPID TOOLING - CHANGING THE FACE OF MANUFACTURING" -Compact Disc Digital Data, dated October 12, 2000., trt: 10:50. TAFA® (Thermal Spray Equipment and Supplies), "ARC SPAY 8830 SYSTEM MANUAL" - Files 1.9.1.1.1 thru 1.9.1.2-205, @1990-1992. TAFA Incorporated, Concord, N.H., USA. MERLE L. THORPE and JOSEPH W. MINGE, "SPRAY METAL COMPOSITE TOOLING" - 26th National SAMPE Symposium and Exhibition, Volume 26 (Society for the Advancement of Material and Process Engineering), April 28-30, 1981, Pages 374 thru 382, Figures 1-14 and Tables I and II. WALTER A. ZANCHUK & LEON J. GRANT, TAFA INCORPORATED, Concord, New Hampshire - "THE USE OF SPRAY METAL TOOLING FOR METAL INJECTION MOLDING" -. XP-001120122. Pages 25-34.

| Examiner | Date | |
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| Signatur | Considered | |

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